SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

8/

75. (Amended). A purified polynucleotide selected from the group consisting of:

SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

78. (Amended). A recombinant expression system comprising:

a nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with a desired host selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

63

- 80. (Amended). A composition of matter comprising a purified polynucleotide selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.
- 83. (Amended). A purified polynucleotide comprising DNA selected from the group consisting of: SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.
- 84. (Amended). A test kit useful for detecting polynucleotide in a test sample, comprising:

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a container containing at least one purified polynucleotide selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, [SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5, SEQUENCE ID NO: 6,] SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

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- 86. (Amended). An isolated DNA molecule comprising SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE IDNO: 12 and degenerate codon sequences thereof.
- 89. (Amended). A recombinant expression system comprising:
  a purified nucleic acid sequence that includes an open reading frame operably linked to

6

a control sequence compatible with a desired host, wherein the purified nucleic acid is selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

91. (Amended). A recombinant expression system comprising:

an isolated DNA molecule that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein the isolated DNA molecule is selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

- 3 -



93. (Amended). A composition of matter comprising an isolated DNA molecule selected from the group consisting of SEQUENCE ID NO: 1, SEQUENCE ID NO: 2, SEQUENCE ID NO: 7, SEQUENCE ID NO: 8, SEQUENCE ID NO: 9, SEQUENCE ID NO: 10, SEQUENCE ID NO: 11, SEQUENCE ID NO: 12 and degenerate codon equivalents thereof.

## Please add new claims 96 - 114 as follows:

96. (New). A test kit useful for detecting polynucleotide in a test sample, comprising:

a container containing at least one polynucleotide consisting of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.

- 97. (New). A purified polynucleotide consisting of a sequence selected from the group consisting of: SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.
- 98. (New). The purified polynucleotide of claim 97, wherein said polynucleotide is produced by recombinant techniques.
- 99. (New) The purified polynucleotide of claim 97, wherein said polynucleotide is produced by synthetic techniques.
  - 100. (New) A recombinant expression system comprising:

a nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein said nucleic acid sequence consists of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.

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- 101. (New) A cell transfected with the recombinant expression system of claim 100.
- 102. (New) A composition of matter consisting of a purified polynucleotide selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.
- 103. (New) A test kit useful for detecting polynucleotide in a test sample, comprising:

a container containing at least one purified polynucleotide consisting of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.

104. (New) The test kit of claim 103 further comprising:

a container with tools useful for collection of said sample, wherein the tools are selected from the group consisting of lancets, absorbent paper, cloth, swabs and cups.

- 105. (New) An isolated DNA molecule consisting of SEQUENCE ID NO: 3, \* SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon sequences thereof.
- 106. (New) The isolated DNA molecule of claim 105 wherein the DNA molecule is produced by recombinant techniques.
- 107. (New) The isolated DNA molecule of claim 105 wherein the DNA molecule is produced by synthetic techniques.
  - 108. (New) A recombinant expression system comprising:

a purified nucleic acid sequence that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein the purified nucleic acid consists of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.

- 109. (New) A cell transfected with the recombinant expression system of claim 108.
  - 110. (New) A recombinant expression system comprising:

an isolated DNA molecule that includes an open reading frame operably linked to a control sequence compatible with a desired host, wherein the isolated DNA molecule consists of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.

- 111. (New) A cell transfected with the recombinant expression system of claim 110.
- 112. (New) A composition of matter comprising an isolated DNA molecule consisting of a sequence selected from the group consisting of SEQUENCE ID NO: 3, SEQUENCE ID NO: 4, SEQUENCE ID NO: 5 and degenerate codon equivalents thereof.
- 113. (New). An isolated polynucleotide sequence encoding a polypeptide having an amino acid sequence selected from the group consisting of SEQUENCE ID NO:25, SEQUENCE ID NO:26, SEQUENCE ID NO:27, SEQUENCE ID NO:28, SEQUENCE ID NO:29 and degenerate codon equivalents thereof.